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DATE MAILED: 11/15/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/737,272	12/15/2003	Koenraad F. Van Schuylenbergh	D/A3601	6190	
75	590 11/15/2004		EXAMINER		
Patent Documentation Center			GILMAN, AI	GILMAN, ALEXANDER	
Xerox Corporat			ART UNIT	PAPER NUMBER	
Xerox Square 2	Oth Floor		ART UNIT PAPER NUMBER		
100 Clinton Ave. S.			2833		
Rochester NY	14644				

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/737,272	VAN SCHUYLENBERGH ET AL.					
Office Action Summary	Examiner	Art Unit					
•	Alexander D Gilman	2833	and				
The MAILING DATE of this communication app		<u> </u>	dress				
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tile within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed ys will be considered timely n the mailing date of this co ED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 15 De	<u>ecember 2003</u> .						
2a) ☐ This action is FINAL . 2b) ☑ This	☐ This action is FINAL . 2b) ☐ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-29</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>15-25</u> is/are allowed.							
6)⊠ Claim(s) <u>26 and 27</u> is/are rejected.							
7) Claim(s) <u>1-14,28 and 29</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.		•				
Application Papers							
9) The specification is objected to by the Examine	r						
D)⊠ The drawing(s) filed on <u>24 September 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the							
Replacement drawing sheet(s) including the correct							
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	a Action or form PT	O-152.				
Priority under 35 U.S.C. § 119		1					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a	a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents	s have been received.						
2. Certified copies of the priority documents							
3. Copies of the certified copies of the prior	•	ed in this National	Stage				
application from the International Bureau	, ,,,	ad					
* See the attached detailed Office action for a list	or the certified copies flot receiv	cu.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail D						
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTC)-152)				

DETAILED ACTION

Claim Objections

Claim 1 is objected. objected to because of the following informalities:

Laim 1, lines 7-10 recites "...a spring tip coupled to a second end of the release portion, the spring tip oriented where a direction of maximal curvature of the spring tip [when projected into the substrate plane'?] lies in a plane approximately perpendicular to the release line"

The phrase is unclear.

It was interpreted, for purposes of examination, that vector of the spring curve at the spring tip is located in a plane perpendicular to the release line.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 26, 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Smith et al.

With regard to claim 26, Smith et al (US 5,914,218) disclose (Fig. 6) an electrical interconnect comprising.

an anchor portion (12); and,

a spring (11) coupled to the anchor podion, the spring including an aperture (Fig. 21)

in the spring, the largest dimension of the aperture (in direction of the longitudinal axis of the interconnect) exceeding 50% of the width of the spring.

With regard to claim 27, Smith et al (US 5,914,218) inherently disclose that the width of the aperture is at least 0.05 micrometer 9since the typical width of the spring contact is 10-100 Mu (For example US 6,439,898).

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Allowable Subject Matter

Claims 15-25 are allowed.

Claims 1-14 would be allowable if rewritten or amended to overcome the objection set forth in this Office action.

Claims 27, 28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

No prior art has been found to anticipate or render obvious the presently claimed subject matter. Specifically, none of the prior art of record discloses the combination of the limitations presented including,

the release portion including at least one in-plane curve, the release portion further including a release line where an uplift portion of the release portion begins to curve out of the plane of the substrate (claims 1-14);

a flexible stressed metal forming a release portion coupled to the anchor portion, the release podion including at least one in-plane curved section, the release portion also including an uplift portion such that the total of angles subtended by all in-plane curves in the uplift portion is approximately zero degrees (claims 15-25)

the width of the aperture exceeds the average width of the spring (claim 28).

the first flexible supports on a first side of the aperture, the first flexible support having a width less than 40% of the average width of the spring, and, a second flexible suppod on a second side of the aperture, the second flexible support having a width less than 40% of the average width of the spring (claim 29)...

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander D Gilman whose telephone number is 571 272-2004. The examiner can normally be reached on Monday-Friday, 10:30 a.m. - 8:00 p.m.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on 571 272-2800 ext. 33. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

11/09/2004

ALEXANDER GILMAN PRIMARY EXAMINER

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